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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/01/2009

JOHN W. OLIVO, JR.
WARD & OLIVO
382 SPRINGFIELD AVENUE
SUMMIT, NJ 07901

EXAMINER

JOO, JOSHUA

ART UNIT

PAPER NUMBER

2454

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,175	02/07/2002	Frank J. Chu	PT-035	1300

TITLE OF INVENTION: SYSTEM ARCHITECTURE FOR LINKING PACKET-SWITCHED AND CIRCUIT-SWITCHED CLIENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

12/01/2009

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SUMMIT, NJ 07901

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	YES	\$755	\$300	\$0	\$1055	03/01/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
JOO, JOSHUA	2454	709-205000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2
 _____ 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

JOO, JOSHUA

ART UNIT

PAPER NUMBER

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 645 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 645 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

10/072,175

Examiner

JOSHUA JOO

Applicant(s)

CHU ET AL.

Art Unit

2454

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/14/09.
2. ☒ The allowed claim(s) is/are 1 and 3-5.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/NATHAN FLYNN/
Supervisory Patent Examiner, Art Unit 2454

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant Octavio DaCosta, Reg. No. 62,110 on November 17, 2009.

The application has been amended as follows:

Claims

1. (Currently Amended) A method of linking a first plurality of clients connected to a packet-switched conferencing server to a second plurality of clients connected to a circuit-switched conferencing server, the method comprising the steps of:

(1) establishing, by the packet-switched conferencing server, a connection to the circuit-switched conferencing server;

(2) designating the connection as an active speaker connection on the packet-switched conferencing server;

(3) designating a first client of the first plurality of clients connected to the packet switched conferencing server as a first active speaker by the packet-switched conferencing server;

(4) designating a second client of the first plurality of clients connected to the packet switched conferencing server as a second active speaker by the packet switched conferencing server;

(5) designating a third client of the second plurality of clients connected to the circuit switched conferencing server as a third active speaker by the circuit-switch conferencing server;

(6) designating a fourth client of the second plurality of clients connected to the circuit switched conferencing as a fourth active speaker by the circuit switched conferencing server;

(7) limiting, by the packet-switched conferencing server, one or more of the first plurality of clients added to the active speaker connection;

(8) receiving by the packet switched conference server, over the active connection, a first combined audio packet from the circuit-switched conferencing server, wherein the first combined audio packet is a mixture of audio packets received from the third client and received from the fourth client and is converted by the circuit-switched conferencing server to a format that the first plurality clients can receive;

(9) receiving by the third client the first combined audio packet without an audio packet transmitted by third client and receiving by the fourth client the first combined audio packet without an audio packet transmitted by the fourth client;

(10) receiving, by the packet-switched conferencing server, a first audio packet from the first client and a second audio packet from the second client of the first plurality of clients, wherein the plurality of first and second audio packets are received using an asynchronous transmission method;

(11) forwarding, over the active speaker connection, a second combined audio packet to the circuit-switched conferencing server, wherein the second combined audio packet is a mixture of the first audio packet and the second audio packet, and wherein the circuit-switched conferencing server converts the second combined audio packet to a format that the second plurality of clients can receive;

(12) mixing the first combined audio packet with the second combined audio packets from the first plurality of clients into a composite packet; and

(13) forwarding the composite packet to each of the first plurality of clients connected to the packet-switched conferencing server, wherein the first client receives the composite packet without the composite packet containing an audio packet transmitted from the first client and the second client

receives the composite packet without the composite packet containing an audio packet transmitted from the second client;

wherein the first and the second plurality of clients, using varying equipment and protocols, can simultaneously participate in a single audio conference application;

wherein the packet-switched conferencing server is independent from the circuit-switched conferencing server;

wherein the packet-switched conferencing server keeps a first list of the first plurality of clients who have been designated as an active speaker and limits a number of active speaking IP-based clients;
and

wherein the circuit-switched conferencing server keeps a second list of the second plurality of clients who have been designated as an active speaker and limits a number of active speaking phone-based clients.

2. (Canceled)

3. (Currently Amended) A method of linking a first plurality of clients connected to a circuit-switched conferencing server to a second plurality of clients connected to a packet-switched conferencing server, comprising the steps of:

(1) establishing, by the circuit-switched conferencing server, a connection to the packet-switched conferencing server;

(2) designating the connection as an active speaker connection on the circuit-switched conferencing server;

(3) designating a first client of the first plurality of clients as an active speaker on the circuit-switched conferencing server;

(4) designating a second client of the first plurality of clients as a second active speaker by the circuit switched conferencing server;

(5) designating a third client of the second plurality of clients as a third active speaker by the packet-switched conferencing server;

(6) designating a fourth client of the second plurality of clients as a fourth active speaker by the packet switched conferencing server;

(7) limiting, by the packet-switched conferencing server, one or more of the first second plurality of active speaker clients added to the connection;

(8) receiving, over the connection, a first combined audio packet from the packet-switched conferencing server, wherein the first combined audio packet is a mixture of packets received from each of the third and fourth clients of the second plurality of clients who have been designated as an active speaker by the packet-switched conferencing server; wherein the mixture of packets are received using an asynchronous transmission method;

(9) converting, by the circuit-switched conferencing server, the first combined audio packet to a format that the first plurality clients can receive;

~~(9)~~ (10) receiving, by the circuit-switched conferencing server, a first audio packet from the first client and a second audio packet from the second client, wherein the first and second audio packets are received from each of the first plurality of clients who have been designated as an active speaker by the circuit-switched conferencing server;

~~(10)~~ (11) mixing the converted first combined audio packet, the first audio packet and the second audio packet into one composite audio packet;

~~(11)~~ (12) forwarding the composite audio packet to each of the first plurality of clients connected to the circuit-switched conferencing server; and

(+2) (13) forwarding, over the connection, the second audio packet to the packet-switched conferencing server, wherein the second audio packet is converted by the circuit-switched conferencing server to a format that the second plurality clients can receive;

wherein the first and second plurality of clients, using varying equipment and protocols, can simultaneously participate in a single audio conference application, wherein the first client receives the composite packet without the composite packet containing an audio packet transmitted from the first client and the second client receives the composite packet without the composite packet containing an audio packet transmitted from the second client;

wherein the packet-switched conferencing server is independent from the circuit-switched conferencing server;

wherein the packet-switched conferencing server keeps a first list of the ~~first~~ second plurality of clients who have been designated as an active speaker and limits a number of active speaking IP-based clients; and

wherein the circuit-switched conferencing server keeps a second list of the first plurality of clients who have been designated as an active speaker and limits a number of active speaking phone-based clients.

4. (Currently amended): A computer program product carrying a computer program and embodied in a computer usable medium comprising hardware memory configured ~~adapted~~ for causing a computer to connect a first plurality of clients connected to a packet-switched conferencing server to a second plurality of clients connected to a circuit-switched conferencing server, said control logic comprising:

first computer readable program code means for causing said computer to establish, by said packet-switched conferencing server, a connection to said circuit-switched conferencing server;

second computer readable program code means for causing said computer to designate said connection as an active speaker on said packet-switched conferencing server;

third computer readable program code means for causing said computer to designate one or more of said first plurality of clients as an active speaker on said packet-switched conferencing server;

fourth computer readable program code means for causing said computer to designate one or more of said second plurality of clients as an active speaker on said circuit-switched conferencing server;

fifth computer readable code means for causing said computer to limit, by said packet-switched conferencing server, one or more of said first plurality of active speaker clients added to said connection;

sixth computer readable program code means for causing said computer to receive, over said connection, a first audio packet from said circuit-switched conferencing server, wherein said first audio packet is a mixture of packets received from each of said second plurality of clients who have been designated as an active speaker by said circuit-switched conferencing server and is converted by the circuit-switched conferencing server to a format that the first plurality clients can receive;

seventh computer readable program code means for causing said computer to forward said first audio packet to each of said first plurality of clients connected to said packet-switched conferencing server;

eighth computer readable program code means for causing said computer to receive, by said packet-switched conferencing server, a plurality of audio packets, wherein said plurality of audio packets comprises a second audio packet from each of said first plurality of clients who have been designated as an active speaker by said packet-switched conferencing server; wherein said plurality of audio packets are received using an asynchronous transmission method;

ninth computer readable program code means for causing said computer to forward, over said connection, said second audio packet to said circuit-switched conferencing server;

wherein the circuit-switched conferencing server converts the second audio packet to a format that the second plurality of clients can receive;

whereby said first and second plurality of clients, using varying equipment and protocols, can simultaneously participate in a single audio conference application;

whereby said packet-switched conferencing server is independent from said circuit-switched conferencing server;

whereby said packet-switched conferencing server keeps a first list of said first plurality of clients who have been designated as an active speaker, and limits a number of active speaking IP-based clients,
wherein the circuit-switched conferencing server keeps a second list of the second plurality of clients who have been designated as an active speaker and limits a number of active speaking phone-based clients; and

wherein each client of the second plurality of clients receives said second audio packet without the second audio packet containing an audio packet transmitted from the each client of the second plurality of clients used to make up the second audio packet, thereby eliminating echo in the transmission.

5. (Currently amended): A computer program product carrying a computer program and embodied in a computer usable medium comprising hardware memory configured adapted for causing a computer to connect a first plurality of clients connected to a circuit-switched conferencing server to a second plurality of clients connected to a packet-switched conferencing server, said control logic comprising:

first computer readable program code means for causing said computer to establish; by said circuit-switched conferencing server, a connection to said packet-switched conferencing server;

second computer readable program code means for causing said computer to designate said connection as an active speaker on said circuit-switched conferencing server;

third computer readable program code means for causing said computer to designate one or more of said first plurality of clients as an active speaker on said circuit-switched conferencing server;

fourth computer readable program code means for causing said computer to designate one or more of said second plurality of clients as an active speaker on said packet-switched conferencing server;

fifth computer readable program code means for causing said computer to limit, by said packet-switched conferencing server, one or more of said second plurality of active speaker clients added to the connection;

sixth computer readable program code means for causing said computer to receive, over said connection, a first audio packet from said packet-switched conferencing server, wherein said first audio packet is a mixture of packets received from each of said second plurality of clients who have been designated as an active speaker by said packet-switched conferencing server; wherein said mixture of packets are received using an asynchronous transmission method;

seventh computer readable program code means for converting, by the circuit-switched conferencing server, the first audio packet to a format that the first plurality clients can receive;

~~seventh~~ eighth computer readable program code means for causing said computer to receive, by said circuit-switched conferencing server, a plurality of audio packets, wherein said plurality of audio packets comprises a second audio packet from each of said first plurality of clients who have been designated as an active speaker by said ~~packet-switched~~ circuit-switched conferencing server;

~~eighth~~ ninth computer readable program code means for causing said computer to mix said first audio packet and said second audio packet into one combined audio packet;

~~ninth~~ tenth computer readable program code means for causing said computer to forward said one combined audio packet to each of said first plurality of clients connected to said circuit-switched conferencing server; and

~~tenth~~ eleventh computer readable program code means for causing said computer to forward, over said connection, said second audio packet to said packet-switched conferencing server;

wherein the second audio packet is converted by the circuit-switched conferencing server to a format that the second plurality of clients can receive;

whereby said first and second plurality of clients, using varying equipment and protocols, can simultaneously participate in a single audio conference application; and

whereby said packet-switched conferencing server is independent from said circuit-switched conferencing server;

whereby said packet-switched conferencing server keeps a first list of said second plurality of clients who have been designated as an active speaker, and limits a number of active speaking IP-based clients,

wherein the circuit-switched conferencing server keeps a second list of the first plurality of clients who have been designated as an active speaker and limits a number of active speaking phone-based clients; and

wherein each client of the first plurality of clients receives said combined audio packet without the combined audio packet containing an audio packet transmitted from the each client of the first plurality of clients used to make up the combined audio packet, thereby eliminating echo in the transmission.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Joo whose telephone number is 571 272-3966. The examiner can normally be reached on Monday to Friday 8AM to 5PM.

Application/Control Number: 10/072,175
Art Unit: 2454

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/J. J./
Examiner, Art Unit 2454

/NATHAN FLYNN/
Supervisory Patent Examiner, Art Unit 2454